AMSAT News Service Weekly Bulletins
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AMSAT NEWS SERVICE
ANS-071.02

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

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* First Moon Bounce using Opera
* NEON - NASA Educators Online Network - ANNOUNCEMENTS
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* ARISS News
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-071.02
ANS-071 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 071.02
>From AMSAT HQ KENSINGTON, MD.
March 12, 2017
To All RADIO AMATEURS
BID: $ANS-071.02

Editor's Note:

Todays ANS was sent missing content, as I am sure most who read it observed. This is a re-bublication of the Bulletin including its full contact.
I apologize for any problems.

EMike, AA8EM

US ARISS Proposal Window Remains Open Through April 15, 2017

Message to US Educators Amateur Radio on the International Space Station Contact Opportunity

Call for Proposals

Proposal Window February 15 – April 15, 2017

The Amateur Radio on the International Space Station (ARISS) Program is seeking formal and informal education institutions and organizations, individually or working together, to host an Amateur Radio contact with a crew member on board the ISS. ARISS anticipates that the contact would be held between January 1, 2018 and June 30, 2018. Crew scheduling and ISS orbits will determine the exact contact dates. To maximize these radio contact opportunities, ARISS is looking for organizations that will draw large numbers of participants and integrate the contact into a well-developed education plan.

The deadline to submit a proposal is April 15, 2017. Proposal information and documents can be found at www.arrl.org/hosting-an-ariss-contact.

The Opportunity
Crew members aboard the International Space Station will participate in scheduled Amateur Radio contacts. These radio contacts are approximately 10 minutes in length and allow students to interact with the astronauts through a question-and-answer session.

An ARISS contact is a voice-only communication opportunity via Amateur Radio between astronauts and cosmonauts aboard the space station and classrooms and communities. ARISS contacts afford education audiences the opportunity to learn firsthand from astronauts what it is like to live and work in space and to learn about space research conducted on the ISS. Students also will have an opportunity to learn about satellite communication, wireless technology, and radio science. Because of the nature of human spaceflight and the complexity of scheduling activities aboard the ISS, organizations must demonstrate flexibility to accommodate changes in dates and times of the radio contact.

Amateur Radio organizations around the world, NASA, and space agencies in Russia, Canada, Japan and Europe sponsor this educational opportunity by providing the equipment and operational support to enable direct communication between crew on the ISS and students around the world via Amateur Radio. In the US, the program is managed by AMSAT (Radio Amateur Satellite Corporation) and ARRL (American Radio Relay League) in partnership with NASA and CASIS (Center for the Advancement of Science in Space).

More Information
Interested parties can find more information about the program at www.ariss.org and www.arrl.org/ARISS.

For proposal information and more details such as expectations, proposal guidelines and proposal form, and dates and times of Information Sessions go to http://www.arrl.org/hosting-an-ariss-contact.

Please direct any questions to ariss at arrl.org.

[ANS thanks ARISS for the above information]

First Moon Bounce using Opera

On Tuesday, March 7, Luis EA5DOM and Jose EA3HMJ made a test using

the amateur radio weak-signal data mode Opera for 1296 MHz Moon Bounce (EME)

Luis EA5DOM posted the following:

We are both using an small 180cm offset dish. Jose is 400w, so he was transmitting and I was trying to decode. The trace was visible but too weak for an Op05 decode. So tried Op1 switching band to 70MHz. After some trying we got one decode at -24dB

2017-03-07 23:31:17 EA3HMJ JN11AN EA5DOM IM98WN
381 70.093 - 23 Op1__~24dB

Switched to Op2 and tried some times without success. I was getting problems to keep an accurate tracking, so the signal was not optimal and close to the decoding limit

We will keep testing, But at least one decode was worth the effort.

Here is EA5DOM screenshot:
http://tinyurl.com/ANS071-EA5Dom-Screenshot

And EA3HMJ Screenshot:
http://tinyurl.com/ANS071-EA3HMJ-Screenshot

You can download Opera from
https://rosmodem.wordpress.com/

[ANS thanks Southgate ARN for the above information]

NEON - NASA Educators Online Network - ANNOUNCEMENTS

Free STEM Education Webinars From NASA Educator Professional Development

Audience: In-service, Pre-service, Home School and Informal Educators

The NASA STEM Educator Professional Development Collaborative (EPDC) at Texas State University is presenting a series of free webinars open to all educators. Join NASA education specialists to learn about activities, lesson plans, educator guides and resources that bring NASA into your classroom. Registration is required to participate. To register, simply click on the link provided beneath the webinar description.

March 13, 2017, at 4:00 p.m. ET: Earth Right Now: Engineering at NASA (Grades K-12) -- Engineers at NASA come from a multitude of backgrounds such as astronomy, biology, chemistry, geology, materials science and physics. This webinar allows participants to hear from one of NASA's Planetary Protection engineers. These unique engineers support projects that have to be biologically clean before launch so that they do not contaminate another planet or moon with Earth life. Join us to discover NASA educational activities related to engineering and help inspire students to pursue careers in science, technology, engineering and mathematics. Register online to participate. https://www.etouches.com/209358

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March 14, 2017, at 6:30 p.m. ET: Earth Right Now -- GLOBE Atmosphere

(Grades K-12) -- NASA’s fleet of satellites, its airborne missions and researchers address some of the critical challenges facing our planet today. Learn about clouds and contrails using the Global Learning and Observations to Benefit the Environment, or GLOBE, program. This international science and education program provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and to contribute meaningfully to our understanding of the Earth system and global environment. Register online to participate. https://www.etouches.com/229949

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March 16, 2017, at 8:00 p.m. ET: Astrobiology and Looking for Life (Grades 6-12) -- In this webinar, we will discuss how NASA has turned the search for alien life from science fiction to a quickly growing research field. Topics in Earth and space science linked to biology will help us understand the most current theories for how life came to be here on Earth and where we could find it next. Classroom activities for numerous grades will put this exploration into the hands of the next generation of scientists. Register online to participate. https://www.etouches.com/234109

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For the NASA STEM Educator Professional Development webinar schedule, go to: http://www.txstate-epdc.net/events/

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For US Educators: Amateur Radio on the International Space Station--Students Talk to Astronauts

Call for Proposals -- Window is February 15 – April 15, 2017

The Amateur Radio on the International Space Station (ARISS) Program is seeking formal and informal education institutions and organizations, individually or working together, to host an Amateur Radio contact with a crewmember on board the ISS. ARISS anticipates that the radio contact would be held between Jan 1, 2018 and June 30, 2018. Crew scheduling and ISS orbits determine the exact dates. To maximize these radio contact opportunities, ARISS is looking for organizations that will draw large numbers of participants and integrate the contact into a well-developed education plan. Students learn about technology, communications, and science studied on board the ISS.

The deadline to submit a proposal is April 15, 2017. For proposal information and details such as expectations, proposal guidelines and proposal form, and days/times of Information Sessions, go to www.arrl.org/hosting-an-ariss-contact Please direct any questions to ariss at arrl.org .

[ANS thanks NASA Educators Online Network (NEON) for the above information]

Cubesat Developers Workshop 2017

Cubesat Developers Workshop 2017, April 26-28, 2017, San Luis Obispo, CA -- New Venue - Cal Poly Performing Arts Center.

#CubeSatDW2017 * http://www.cubesat.org/workshop-2017-information

The CubeSat Workshop Team is honored to welcome Mr. James L. Reuter (http://www.cubesat.org/james-reuter), Deputy Associate Administrator for Programs within the Space Technology Mission Directorate (STMD) at NASA Headquarters, as one of our Keynote speakers for the upcoming workshop. If you are as interested as we are to hear what he has to say, you can follow up with Registration and Workshop Information on our website:
http://www.cubesat.org/workshop-2017-information/

Early Bird Registration for the 14th Annual CubeSat Developers Workshop ends in just TEN DAYS on *March 17, 2017*. Register before the prices increase!

You can register by following the link below.

https://calpoly.irisregistration.com/Home/Site?code=cubesat-2017

If you have any questions regarding workshop, or are interested in being a sponsor this year, don't hesitate to contact us at:
cubesat-workshop at calpoly.edu

[ANS thanks The CubeSat Workshop Team for the above information]

ARISS News

+ A Successful contact was made between Blair Pointe Upper Elementary School, Peru, IN, USA and Astronaut Shane Kimbrough KE5HOD using Callsign NA1SS. The contact began Thu 2017-03-09 15:21:33 UTC and lasted about nine and a half minutes. Contact was Direct via WD9GIU.
  ARISS Mentor was Charlie AJ9N.

+ A Successful contact was made between 3rd Junior High School, Komotini, Greece and Astronaut Shane Kimbrough KE5HOD using Callsign OR4ISS. The contact began Fri 2017-03-10 08:20:46 UTC and lasted about nine and a half minutes. Contact was Direct via SV7APQ.
  ARISS Mentor was Bertus PE1KEH.

Upcoming ARISS Contact Schedule

McBride High School, Long Beach, CA, direct via K6MHS
The ISS callsign is presently scheduled to be NA1SS
The scheduled astronaut is Thomas Pesquet KG5FYG
Contact is a go for: Wed 2017-03-15 16:28:44 UTC

[ANS thanks ARISS, Charlie AJ9N and David AA4KN for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the

President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
EMike McCardel, AA8EM
aa8em at amsat dot org

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ADDITIONAL COMPONENT BULLETINS RECOVERED FROM OTHER POSTS
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ANS-071 AMSAT News Service Weekly Bulletins

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This week's ANS Editor,
EMike McCardel, AA8EM
aa8em at amsat dot org